



THE PRINTER'S
DELUXE FIELD DAY ISSUE

the CARRIER.....

Published Monthly by the Mount Diablo Amateur Radio Club

MDARC FIELD DAY CALL W6CX; 2M REPEATER W6CX/R 220 REPEATER W6CX/R MEMORIAL CALL SIGN W6LGW

Volume XXX

July 1982

No. 7

CLUB CALENDAR

"REMEMBER AUGUST 1"



- July 4: Independence Day
July 16: MDARC General Meeting 8PM
This months meeting will be held at our regular meeting place, Grace Valley Presbyterian Church, 2100 Tice Valley Blvd., Walnut Creek, Friday, July 16, 1982, at 8 P.M.
- July 18: MDARC Club picnic, 12 noon till 6 P.M. Look for map inside YA ALL COME NOW!! YA HEAR
- July 19: Board Meeting 8:00 P.M. County OES Bldg. 50 Glacier Dr. Martinez. Everyone welcome.
- Aug. 9: Repeater meeting Sat 8 P.M. Grace Presbyterian Church, 2100 Tice Valley Blvd., Walnut Creek.

Meeting Notice

The speaker for the July meeting will be Fire Captain Specialist Dick Muldin. Capt. Muldin is involved in Fire Prevention programs. The one we know about is the VIP program (volunteers in Prevention) some of our hams belong to this group.

Capt. Muldin will have a film of one of the major fires and a question and answer period will follow.

Maybe after hearing the Capt. and seeing the film you will realize how much you all are needed. SIGN UP!!

This promises to be a great evening.

Nets

"Ya all check in now ya Hear!"
Tech Forum/Swap NET
Thursdays 7:30 P.M. 147.66/06
Contra Costa Emergency NET
Thursdays 8:30 P.M., 146.43 MHz simp.
Parky NET
Every Night 3895 +/- QRM 10 P.M.
DARC NET
Thursdays 7PM on 146.54 MHZ
COCORA NET
Mondays 7:35 PM on 147.135/735

EDITOR: Doug Smith, WA6GON P.O. Box 23222, Pleasant Hill, Calif. 94523 0222

PRESIDENT.....	KT6X	Dick Brown	4125 Sacramento St., Concord CA 94521	687-9048
VICE-PRESIDENT.....	WB6TEE	Don Peattie	2417 Lomond Ln. Walnut Creek CA 94598	935-2636
SECRETARY.....	N6EJU	Dee Koester	438 Diablo Court, Martinez, CA 94553	228-8727
TREASURER.....	KA6IZI	Nancy Hodgson	120 Summit Road Walnut Creek, CA 94598	933-8716
EMERGENCY COORDINATOR..	KA6IVF	Jim House	1919 Ygnacio Valley #49, Walnut Creek CA 94598	939-8965
BOARD MEMBER.....	K6XC	Ron Luttringer	440 Diablo Court, Martinez, CA 94553	229-3987
BOARD MEMBER.....	N6EEQ	Don Bertrand	3515 Honeysuckle Way, Concord CA 94518	

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Next Board Meeting at: C.C. County O.E.S. Building, 50 Glacier Dr., Martinez, July 19, 1982.

DEADLINE FOR THE NEXT ISSUE: Articles, Classified Ads, etc. by July 26, 1982

MDARC Board Meeting

June 21, 1981

QTH - O.E.S. - 50 Glacier Dr., Martinez

The meeting was called to order at 8:00 PM by our President Dick Brown KT6X.

BOARD MEMBERS present: Don, WB6TEE, Nancy, KA6IZI, Dee N6EJU, Ron K6XC, Don N6EEQ and Jim KA7IVF.

MEMBERS PRESENT were: Joe, WA6DQN, Val KD6KV.

M.M.S.P. that the minutes be approved as printed in the CARRIER.

John Laye and Carrol Boye Lillard spoke to the Board about "Explorers". These are groups of young adults 14-18. They are looking for sponsor ship to form what are called posts. Their interests would be in communications.

M.M.S.P. that the information concerning Explorers and whether we should become involved be brought to the General meeting.

UNFINISHED BUSINESS: Club of the year information being compiled by Ron K6XC.

NOMINATING COMMITTEE: discussion took place and will be discussed further at future meeting.

CLUB HISTORY: Person needed to write the last 5 years History.

It was recommended that the President appoint Ron K6XC to write the History of this last year.

CERTIFICATE OF APPRECIATION: to be given to last months speaker.

Magnetic signs have been ordered by K06R. Letters to advertizers to be written by Sec.

VICE PRESIDENT: Don Peattie WB6TEE informed the Board that the July meeting will have Captain Dick Mulden from Calif. Dept. of Forestry. Wayne Green will be our speaker for October. Discussion took place on inter club type of meeting.

M.M.S.P. that the October meeting be moved up one week to October 22 and the Board meeting to Oct. 25. The Oct. CARRIER will be sent at its usual time.

TREASURER: Nancy KA6IZI, reports that we have \$834.54 in checking and \$2,260.56 in savings.

MEMBERSHIP: we have a total of 241 thus far.

EMERGENCY COORDINATOR: Jim KA6IVF needs volunteers for training and placed in special locations during emergencies.

PUBLIC RELATIONS chairperson Betty: KB6UX is busy letting the public know we exist. Meeting announcements have appeared in several local newspapers.

PHOTOGRAPHER: George WB6OFH will be on Mt. Diablo taking pictures for Field Day.

The N.A.R.C. meeting was attended by Dick our President and he reports that W6CX repeaters are officially sanctioned by N.A.R.C.

and a letter confirming our sanction to be mailed.

Meeting was adjourned at 9:59.

Respectfully submitted

Dee Koester, N6EJU

Secretary

Special Announcement WAYNE GREEN COMING

We have received confirmation from Wayne Green W2NSD, Editor and Publisher of 73 Magazine, as the speaker for our October meeting.

Plans are underway to make this an outstanding event for the MDARC. We are planning an Interclub type of event with attendance expected from Ham Club Membership throughout the Northern California area.

We have reserved the Willow Pass Center on East Olivera Road in Concord and the MDARC Board has changed the meeting date to the FOURTH Friday nite for this month only to accomodate Wayne's schedule. We are expecting approximately 300-350 to attend this most interesting event.

It is possible that we will also organize an informal "Dinner with Wayne" for our membership only, however this is not definite as yet, and depends on the level of MDARC interest.

W6EEN

The Carrier Quoted

THE CARRIER, published monthly by the Mount Diablo Amateur Radio Club. It is one of the best ARC news bulletins I've seen. Doug Smith, WA6GON, and his crew can be proud of themselves. Ed.

Thanks to the SBARA GROUND PLANE 6/82

(This compliment goes to all of you who make it possible, writers, printers, paster uppers and folders. Ed.)

Carrier Classifieds

FOR SALE

YAESU YO-100 monitor scope. Very good condition. \$125.00.

HW-101 W/power supply. Very good condition. \$275.00

Contact K06R Phone 837-7459

The President's Corner....

There is one sure way to make a Club President happy. That is to have very qualified people volunteer for positions being vacated by "irreplaceable" people. Recently, Dave WA6OFI was forced to give up his post as the Club Emergency Coordinator, after doing an outstanding job for nearly two years, almost at the same time our Education Chairman, Chuck KB6UY decided to take a well earned rest from a very tough position after more than two years. In each case a very qualified individual came to my aid to fill the very demanding jobs. Welcome your new Club Emergency Coordinator, Jim, KA6IVF and your new Education Chairman, Ric NA6Q. Another way to please a Club President is to have someone take on tough jobs one after another and do them well. This month's hero badge goes to Don W6EEN who pulled us through another outstanding and enjoyable field day with flying colors. He didn't stop there. He is now orchestrating one of the biggest Club activities ever - an inter-club evening with Wayne Green - Publisher of 73 Magazine.

We will take a few minutes at the next General meeting to discuss a very interesting idea recently brought to the Board. Carol Bayer, Explorer Director for the Boy Scouts has suggested MDARC sponsor an explorer group who will be working on amateur radio related projects. It would provide quite an opportunity for community service for us. What are your thoughts?

If you ever want to realize how really uncomplicated your life really is, I recommend you attend a N.A.R.C. meeting. My hat goes off to John WA6DPS, Don W6WKF who officiated at the 6/19 meeting. Don, by the way, is putting the final signature on the R.R.R.G. two meter sanction. It should be in our hands by the time you read this.

Dick - KT6X

Magnetic Signs

HEAR YE! HEAR YE!

Magnetic signs are here. Get them while you can. \$15.00 a pair.

Contact K06R phone 837-7459

WHILE THEY LAST!!!

MDARC General Meeting

June 18, 1981

The meeting was called to order at 8:02 by our President Dick Brown, KT6X.

UPGRADES: for the evening was George KA6SNK who upgraded to Tech and also joined MDARC. M.M.S.P. that the minutes be approved as printed in the CARRIER.

TREASURER: Nancy KA6IZI, reports that we have \$834.54 in checking and \$2,226.56 in savings.

EMERGENCY COORDINATOR: Jim KA6IVF said that volunteers are still needed to man local hospitals.

V.I.P. Coordinator Larry W6CPO reports that our first operation will begin with July 4.

CLUB OF THE YEAR: Ron K6XC is busy collecting material and putting it together to be sent to the ARRL for Club of the year.

DIRECTORY: has to be reprinted as present print is to light.

EDUCATION CHAIRMAN: Rick NA6Q replacing Chuck KB6UY. Classes will start in Sept.

GUY N6DTU: will be busy drumming up interest in our Montgomery Wards Operating Event. Aug. 28-29.

CLUB PICNIC: Rick NA6Q reminded us that our annual picnic will be July 18 and the hours will be 12 noon until 6 P.M.

AUCTION: will tentatively be held in Oct.

PETER K06R our magnetic sign chairman to order more signs.

ARRL Pacific Division Convention will be held October 8 - 9 - 10th in Santa Cruz.

Meeting broke for coffee and doughnuts at 8:40.

Speaker for the evening was Don W6EEN and his crew of band captains.

Meeting was adjourned at 10:20.

Respectfully Submitted
Dee Koester N6EJU
Secretary

Letters to the Editor

Gentlemen and YL's

A fond farewell - Since 1959, you have been uppermost in my mind. I have assumed 100% retirement and have moved to Grass Valley to be near my son and family.

Best of 73's to everyone including Parky, a true friend.

Sincerely, Loren WD6BZQ
Loren F. Young
164 A West Empire St.
Grass Valley, CA 95945

TECHNICAL CORNER

Jim Lisson WA2CEP

WHAT'S HIS FREQUENCY?

Let us say that we are receiving a signal at 7.100000 MHz exactly. First I will show what the signals are that are generated inside the SB301 and from them how we can measure the 7.1 MHz input frequency.

On this band the HFO is at a frequency of 15.895 MHz. This will mix with the 7.1 MHz input signal and produce a signal in the wideband first IF at 8.795 MHz. The LMO will be at 5.4 MHz and will mix with the 8.795 MHz signal in the first IF and produce a signal at 3.395 MHz in the passband of the second IF. In the LSB mode the BFO will be at 3.3936 MHz and will mix with the 3.395 MHz second IF signal and produce a 1.4 KC audio tone in the AF stages.

One way that we can measure the 7.1 MHz input frequency is to take the HFO, LMO, BFO and AF output signals and combine them, using mixers, in such a way that we regenerate the 7.100000 MHz input signal. Once more though we must keep this signal out of the receiver input circuits or this system will oscillate.

A better way is to pick off a sample of the second IF signal after the crystal filter where it is free of QRM, (Note that this must be AØ or key down CW or some other sort of signal that is present long enough to be counted)

The sequence now is to take the HFO signal at 15.895 MHz and mix it with the IF signal at 3.395 MHz. Using a fixed frequency filter select the difference frequency of 12.5 MHz. All of the numbers that I use may vary by as much as one or two KC. The only frequency that is exact will be the Master Oscillator and the input signal of 7.100000 MHz. The resultant accuracy is determined solely by the accuracy of the Master Oscillator. We now take this 12.5 MHz signal and mix it with a very accurate and very stable 10.000000 MHz signal. Select the sum frequency of 22.5 MHz with a fixed tuned filter. Now take the 5.4 MHz LMO signal and mix it with this 22.5 MHz signal. This time select the difference frequency of 17.1 MHz with a tunable filter and count it with a frequency counter. Use the 10.0 MHz Master Oscillator signal for generating the counter time base as well and the display will show the input frequency plus ten MHz, with the same accuracy as that of the Master Oscillator. Use the computer in your head and subtract ten MHz from the display. With

a one second gate and enough digits in the counter you will see 17.100000 MHz indicated, if the ten MHz oscillator is right on the frequency. There is also a plus or minus one count error but that is how the digital logic works.

If the HFO or the LMO were to drift the counted frequency would remain the same as long as the signal in the second IF didn't drift outside the passband of the crystal filter. The reason for this is that if the HFO were to drift by say 100HZ, with all else constant, the frequency in the second IF will also change by 100HZ. The relative directions of change will be such that the counted frequency remains unchanged. The same is true when and if the LMO frequency changes.

73 Jim WA2CEP

CATV

BEWARE CABLE TV

Via Parky, K6IMV
from THE BLAZER publ of MISSION TRAIL NET

Ham radio operators from around California met with representatives of the FCC and the cable television industry in Visalia last March to voice their concern over the increasing interference problems being experienced by both services. The cable TV representatives stated that there had been no complaints, however the FCC representative said that her office receives 60 to 70 complaints a week from Northern CA, Nevada, and Utah.

It is very important to note that Bill Harigan of Sonic Cable Television in San Luis Obispo stated that, "while there are 400,000 licensed Amateur radio operators in the country there are twenty-three million cable television subscribers in the United States and the FCC would not be serving the public interest if it asked the cable television industry to go to the expense of moving to a different frequency simply because a group of radio amateur operators want clear reception."

CATV TESTS

I would like to meet with Amateurs who are multi-channel CATV converter subscribers to run some simple interference tests. I'll take pictures of the TVI to document same in my CATV protest letter to the Commission. Contact WA6GON. (Board members have my phone #) get a hold of me and we'll schedule a date.

Field Day

This years Club Field Day effort was most successful with great weather, enthusiastic participants, and reasonable propagation. We operated W6CX in the 7A category from the top of Mt. Diablo.

Setup Friday, and the Friday nite "party" all went off without a hitch. Saturday morning, before the 11 AM kickoff, was almost leisurely compared to the fire drill of previous years.

Band Captains N6EEQ, K6XC/KT6X, AI6V, KA6IZI/K6IUE, and N6FCI (with the help of KE6RV and WA6LPR) all really had their acts together. CONGRATULATIONS TO ALL!

We had a few minor problems. First, the Livermore ARC was operating on the hill just below us and caused considerable front end overloading, key clicks and so forth. And second, the 2 meter setup was a bit chaotic, but the last minute efforts of AI6V, with lots of help from other band teams, made this the top Q band. We did not operate on 450 Mh.

Our raw score, subject to duping and headquarters check out looks like this:

Band	CW QSO's	SSB QSO's	Captain
80M	40	179	N6EEQ
40M	299	373	K6XC/KT6X
20M	116	352	KA6IZI/KA6IVG
15M	187	315	W6EEN
10M	17	150	N6EEQ
2M	6	385	AI6V
220Mh	-	8	?
Novice	43	-	N6FCI

This translates to a total of 2450 QSO's and about 6800 points, all subject to final duping and checkout. This is about 1000 points more than we made last year and should easily win the East Bay Section for us.

One interesting nighttime CW contact was made using a blinker/sight transmitter pair and eyeball receivers in the 5000 Angstrom band. N6EEQ (using W6CX07A) worked KE6ND (2C-San Joaquin Valley) at 3 WPM over a distance of about 21 nautical miles after having first establish mirror contact during the day. KE6ND was near Ternunous (Sacto River) and N6EEQ was on the Summitt parking lot.

KT6X and KB6OH, got the W1AW message, handled traffic, etc. and KB6UX did her thing (Publicity) for bonus points, while WB6OHF took scads of pictures several days. And, the father/son team of W6KLM/KA6DPW kept everything running made emergency repairs, secured tents and antennas in the wind and generally "mothered" the whole operation.

WELL DONE! W6EEN

Ham Radio Outlet

999 Howard Ave.
Burlingame, CA 94010
(415) 342-5757

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(415) 451-5757

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TR-7730 Call for special price
TR-7800 \$339.95
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ICOM 2AT)
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ICOM 730)
ICOM 3AT 220 MHZ In Stock
ICOM 4AT 440 MHZ In Stock

OUR ONLY BUSINESS IS HAM RADIO!

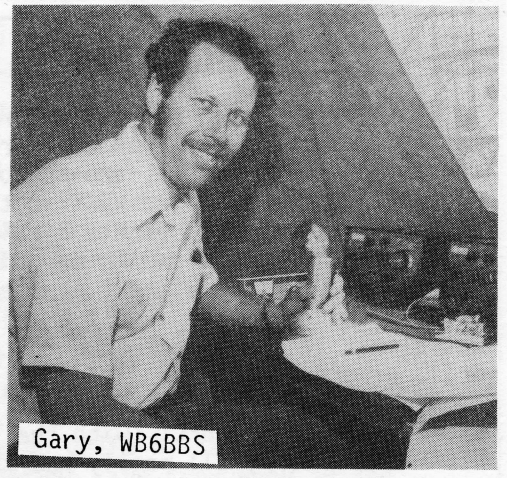
HAM RADIO OUTLET STORES
HAVE THE LARGEST
AMATEUR RADIO INVENTORY
IN NORTHERN CALIFORNIA



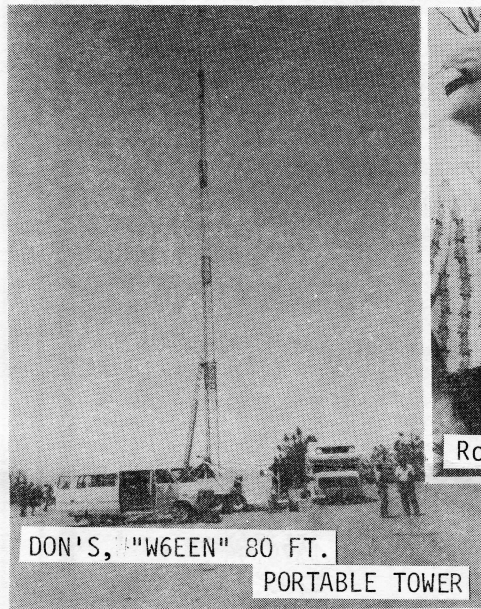
Nancy, KA6IZI



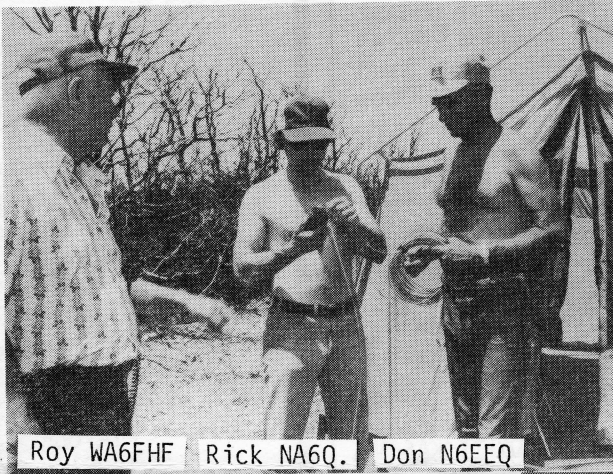
John, N6ELO



Gary, WB6BBS



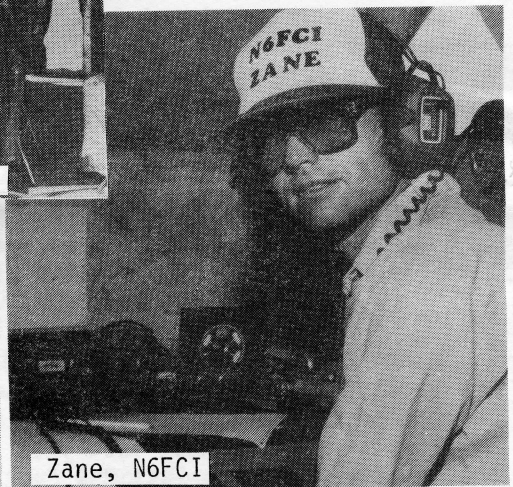
DON'S, "W6EEN" 80 FT.
PORTABLE TOWER



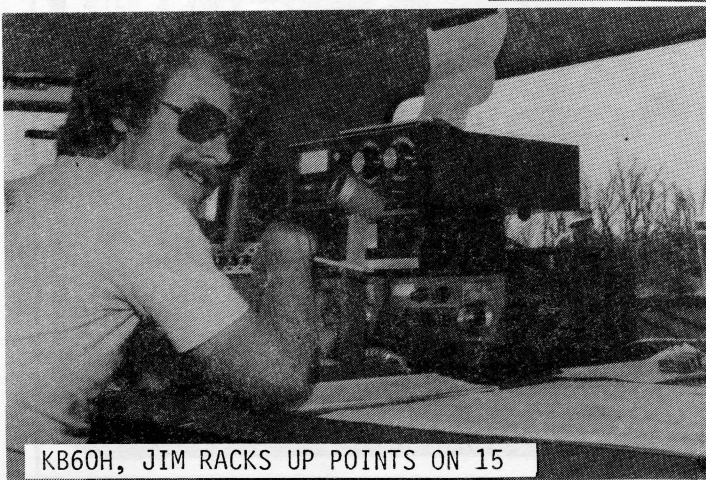
Roy WA6FHF Rick NA6Q. Don N6EEQ



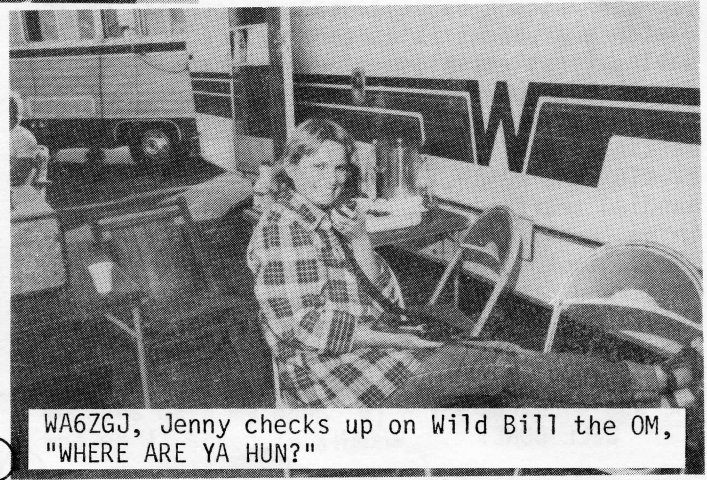
CQ DOWN UNDER!
Peter, K06R



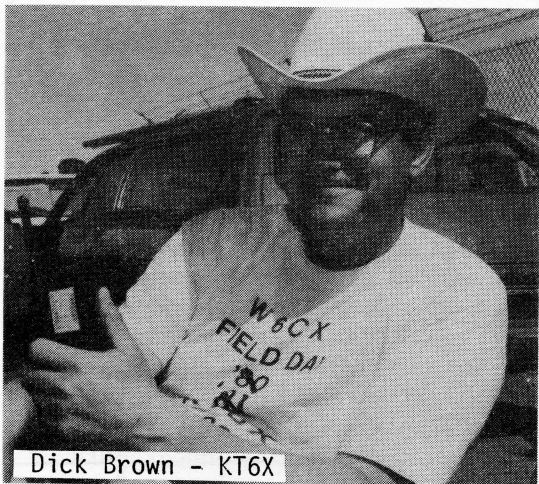
Zane, N6FCI



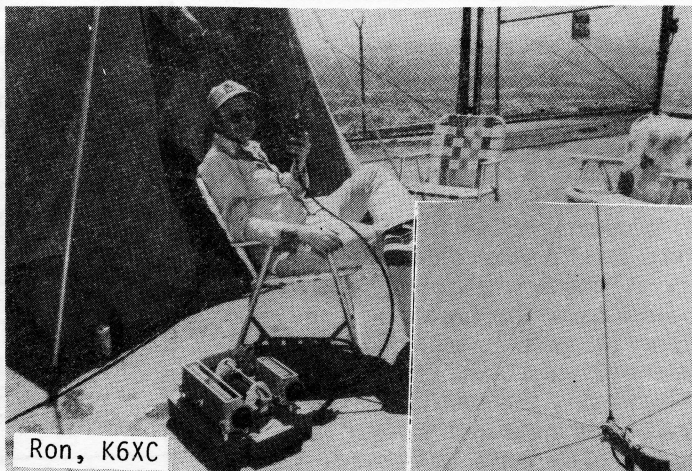
KB6OH, JIM RACKS UP POINTS ON 15



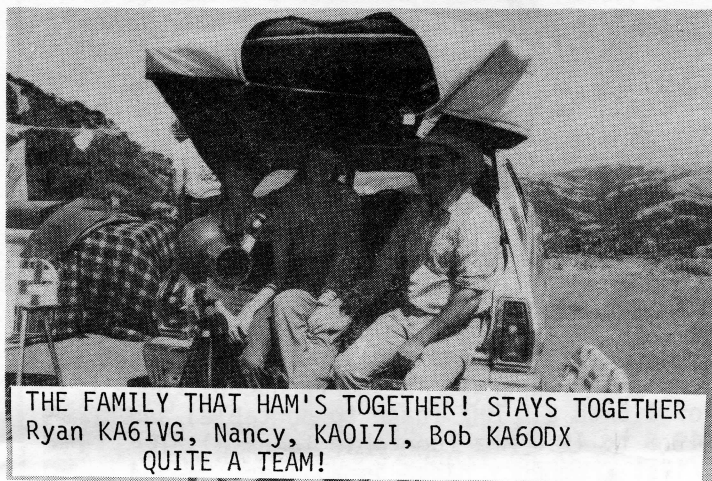
WA6ZGJ, Jenny checks up on Wild Bill the OM,
"WHERE ARE YA HUN?"



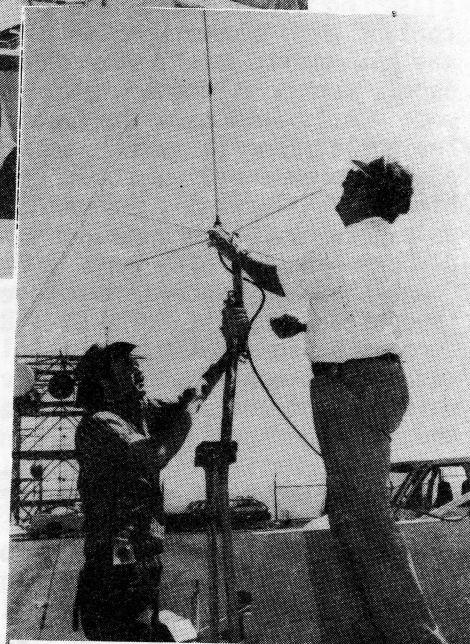
Dick Brown - KT6X



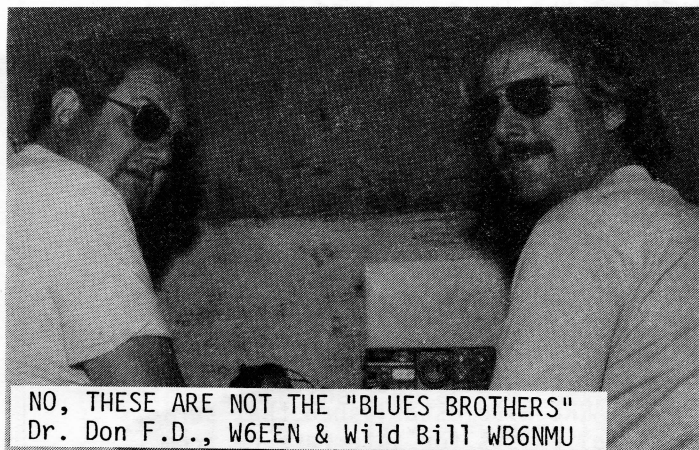
Ron, K6XC



THE FAMILY THAT HAM'S TOGETHER! STAYS TOGETHER
Ryan KA6IVG, Nancy KA0IZI, Bob KA6ODX
QUITE A TEAM!



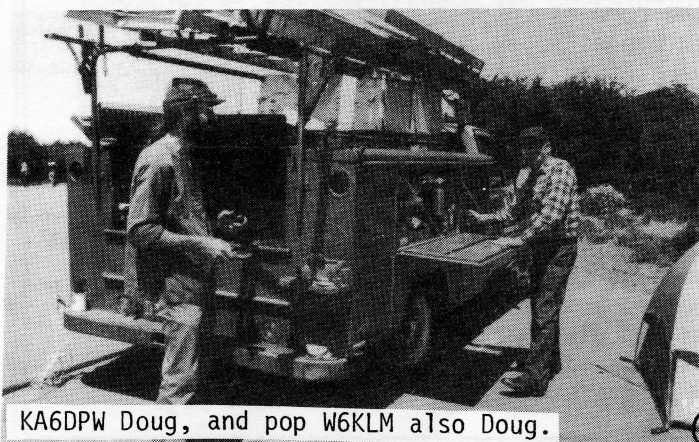
Dr. Don to Harry K6MFV
RIG UP TWO-METER GROUND PLANE!!



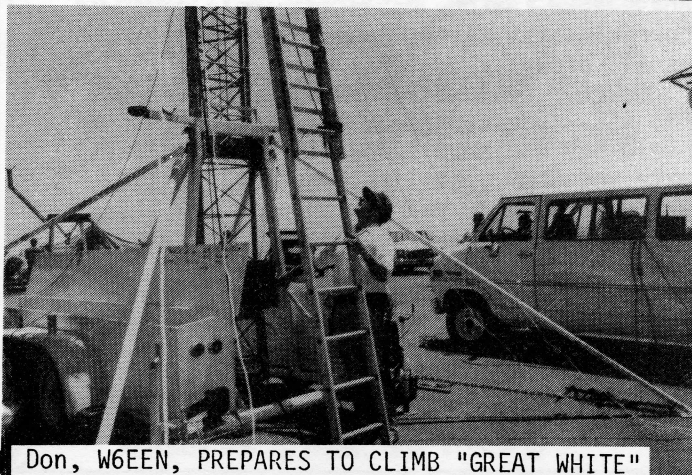
NO, THESE ARE NOT THE "BLUES BROTHERS"
Dr. Don F.D., W6EEN & Wild Bill WB6NMU



Doug W6KLM, Terry WA6NTG, Frank WA6GYR, Doug
KA6DPW, Ryan KA6IVG - and Nancy KA6IZI



KA6DPW Doug, and pop W6KLM also Doug.



Don, W6EEN, PREPARES TO CLIMB "GREAT WHITE"

Short Currents

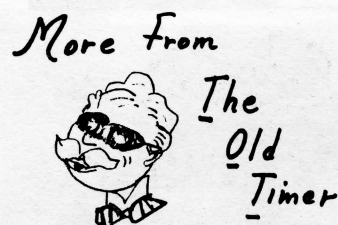
by C.W. Morse

The impossible does happen - Squires tied the knot. Dick certainly has extra-class, no novice could have made a lasting contact with such a special y1. Some say it was his "good Looks", some say persistence. Frankly it doesn't make much difference - he's obviously the happiest guy in the world...Harry Davis is his old self again. Norma's having a hard time keeping him down! All in all, an absolutely remarkable recovery...Everyone who's been to a DARC meeting has been very impressed. East County hams - you certainly have our enthusiastic support!...The President of the German Chapter, MDARC, Mitch Wolfson, DJØQN was heard recently on Westlink via WA6WVH/RPT. Lots of good advice on reciprocal licensing and vacationing in Europe...Frank N6GQ reports Al DeRosier did a "magnificent" job computerizing MDARC membership records. The new computer mailing labels put Hal, W6CU out of the business of typing them. (He's happy about that!)...GON retired all of his military surplus! What news. His station now sports a new ICOM - 730...Word is that Heidi the dog is in the "dog house" these days. Dee saw Heidi trying to escape thru the backyard gate, turned and ran to head Heidi off at the pass. OUCH, there went her achilles. Thats OK Dee, look at it this way - we can all sign your cast!...Rick, KA6Q is tossing in the towel as Social Chairman to do what he likes best-teaching. Rick will head up MDARC classes this fall. Hey teach, can we hold classes outside? And bring a picnic lunch?...Kudos certainly go out to Doug-3 KA6DPW. During the Ride for Research he acted above and beyond the call of duty. A horse and young rider fell down a nasty slope. The rider was OK, but a bit shaken up. The horse however was severely injured. Doug provided comfort for the young lady rider and assisted the Vet in putting the horse down. No one could imagine a more horrible situation. Thanks Doug, you make us all proud...

Now for field day. Dr. Don F.D., AM & FM, SSB - you certainly make one heck of a Field Day Chairman. Word has it MDARC may make you Chmm. for life, why not? Things get better every year!...Suppose you all know, but for those that don't check in regularly on the ARES/RACES NET, Ron WB6JGV is now DEC and our own grey haired guy Dwayne is the new E.B. SEC. Congrats...

Parky is taking lots of check - ins on 3895 KHz these days. Topics range from PVA's batting stance, EEQ's broken window,

and GZC's two inch 80 meter mobile antenna. Check in!...Art's planning a trip to the "fatherland"...CPO our CDF VIP EC is bracing for a serious fire season...HAM is still going to Wine Tasting classes. Word is he's not actually looking for the perfect grape. Lots of YL's still go for the "loaf of bread, hunk of cheese and thou" approach...From old C.W. its good to be back. Was on a DX-pedition to Antarctica. Tried to contact you all but the radio signals are upside-down out there. Gave up radio and talked with the penguins for three months. CU SN. C.W.



Have you noticed the great increase in sale of cordless telephone sets recently? Did you know that a cordless telephone system is a pair of unlicensed two-way radio stations? And did you know that presently they operate in the frequency ranges of 1.6 to 2.0 MHz (base to portable) and 49.6 to 49.9 MHz (portable to base). The first frequency range is adjacent to and overlaps our 160 meter band, and the second frequency range is adjacent to our 6 meter band.

The ARRL has conducted tests which established that severe interference occurs to the cordless phones when properly operated amateur radio stations are transmitting in the 1.8 to 2.0 MHz band at a distance of up to 600 feet. This is because the receiver front end rejection of the cordless phone is completely inadequate and the dynamic range is poor.

Severe interference also occurred when 6 meter transmitters were used.

The ARRL also established that serious potential exists for interference from the cordless phones to the amateur stations at ranges up to 300 feet. Interferences were found from the cordless phones operating at 1.790 MHz as high as 1.825 MHz (160 Meter band). Moreover, strong harmonics were heard on the 3.5 MHz and 7.0 MHz bands. The signals from the cordless phones in many cases violate Section 15.7 of the FCC Rules which limit the transmission distance to 157,000 divided by the operating frequency in KHz. Thus, at 1,790 MHz this maximum distance is 93 feet. ARRL field tests revealed strong signals over an area of 1 square mile.

Con't next page

THE SOUTHERN CHAPTER..... news from down south

Jerry Boyd WA6CUP

FLASH! Marge Fox has her new call. It's N6GTB. FLASH AGAIN! Sharon Rudi's new call is N7EAK. A little more code practice and Marge can check in on 3895 when Art hits the sack early. Sharon could do the same when Joe is on the road except in her case the little Rudi's running around might make it difficult.

By now it's apparent that the family and I didn't make it up North in mid June. Our Legislature in Sacramento decided Coronado didn't need a half million dollars of tax revenue this fiscal year and when that little shortage was discovered it was back to the drawing boards and the budget hearings. So instead of a relaxing vacation it was punch the calculator, figure out where to make more cuts in an already thin budget, etc. Hopefully we'll still make a trip North before the summer is over.

On a different topic, those of you who may visit San Diego should be aware that our local club, the Coronado Amateur Radio Society, has a repeater on as of June 10th. Output 147.30, Input 147.90. We'd be happy to have you try it out. W6HQL or myself are the control operators and can usually be found monitoring it. Since it is primarily an A.R.E.S. repeater it's located at the police department and sits right behind my desk. So even if I'm not monitoring I'll hear the T/R relay click and can turn the volume up. The repeater call is W6MLI (Mighty Little Islander) which is C.A.R.S. Club call.

Speaking of repeaters and control operators this little project has been a real eye opener for me. While I've used repeaters since the 2 meter A.M. days back in 1959, I never fully appreciated the intricacies of getting frequencies coordinated, dealing with intermod and receiver de-sensing, programming the I.D.'er ETC. The moral of this tale of misery is being kind to those who keep your local repeater on the air. They tend to be a tired and torn bunch.

Well, not too much more of note this month. Hope you all have an enjoyable summer. KEEP SMILING. '73

Jerry

MORE FROM THE OLD TIMER cont'd

Since the ARRL has submitted its test results to the FCC, it appears that industry has taken some notice of the interference problems. The EIA (Electronic Industries Association) and MURA Corporation have filed petitions with the FCC to move out of the 160 meter band and use instead 46.6 to 47 MHz and 49.6 to 50. MHz duplex. Note that this is still adjacent to our 6 meter band. Due to the co-location of amateur radio stations and cordless telephones, RFI problems must be considered before allocating these frequencies.

If you are interested enough in protecting our amateur radio bands from further intrusion by consumer electronic gadgets, see P. 62 QST, June 1982, for information on commenting to the FCC concerning petitions RM-4062 and RM-4075.

I feel the ARRL has done a good job on this issue and has backed up its comments to the FCC with laboratory and field tests.

Thanks, League!

73 SK de TOT

Thanks to RAGS REVIEW June issue.

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Westlink Report

THE FCC HAS REFUSED TO RENEW THE LICENSE OF GARY KERR, WA6JIY, based on the findings of an Administrative Law Judge that Kerr's lengthy transmissions over the Northern California Grizzly Peak repeater were not legitimate tests, and constituted malicious interference to the system. The order takes effect 50 days after the date of public release to permit the FCC to review the matter, officially notify Kerr, and permit him time to file an appeal. This is the 2nd action taken regarding Grizzly Peak in recent days.

BURBANK, ILLINOIS IS TRYING TO LEGISLATE AMATEUR RADIO OUT OF EXISTENCE.

The city has passed an ordinance (#9-4-82) that places a year's moratorium on the construction and installation of any new Amateur or C.B. antenna structures to give the city time to inspect all those existing to see if they meet current standards. Those installations not meeting the city code will be ordered destroyed. All existing antennas will be allowed to continue in use so long as the owner complies with the following regulations: (1) the owner registers the antenna with the city, giving the address, type of construction, height and location, and the date it was erected; (2) he registers his FCC identification (callsign) with the city; (3) he posts a \$5,000 bond and provides liability insurance to indemnify the city against violation of the ordinance; (4) the antenna complies with all safety regulations as determined by the Building Inspector; (5) the operator submits to the Building Department the manufacturer's instruction and installation sheet for the antenna to permit the Building Department to have the data they need to inspect the installation. After the 1 year moratorium expires, Amateurs and C.B. operators will be permitted to begin erecting new antenna structures, but with a height limitation of 20 feet above the property roof line. Antenna installations exceeding the 20 foot limit will require the applicant to obtain a variance before the Zoning, Planning and Development Commission, and a Construction Permit from the Building Department. After erection is completed the operator will be held responsible in all cases for property damage that might be caused by the antenna itself.

THE ORDINANCE ALSO OUTLAWS TVI AND RFI by making it illegal, "...for any person to transmit, or cause to be transmitted, any radio emission, signal, or transmission which causes or creates visual or audible interference to neighboring television sets, musical instruments, phonographs or any other home entertainment device." A fine of up to \$1,000 can be imposed for each day of each violation of any part of the ordinance, and 3 violations will lead to a "quasi-criminal" complaint being filed in the Circuit Court of Cook County, Ill.

AMATEURS in the Burbank area have vowed to fight to overturn the ordinance, claiming it violates Federal preemption over radio communications. Already, Chicago attorney James C. O'Connell, W9WU, has filed a memorandum with the City of Burbank requesting clarification of every aspect of the new ordinance and citing the ambiguity of many of its provisions. More information on this matter is available by contacting W9WU at 512 W. Elm St., LaGrange, IL 60525.

CABLEVISION OF LINCOLN (NEBRASKA) HAS VACATED CHANNEL "E". Yielding to the will of the Cable TV Advisory Board and the local Amateur community, the company has discontinued its use of channel "E", at least until the RF leakage problem has been solved. Thanks WA0DGF.

JA1DNG/Y1 FROM IRAQ has been heard on the DK9KE Net; 21.155 at 1030Z and also on 21.250 MHz at 1530Z. QSL via JA1CJF.

EAST KIRIBATI, OPERATING AS T32AF has been reported on 20 meters CW and phone. Check 14.005 - 010 at 0930Z and 14.215 at 1030Z.

5R8AL IN THE MALAGASY REPUBLIC is off the air through June 15th. Alain is currently on vacation in France.

W8HMI IS ON A BUSINESS TRIP TO JORDAN as well as SU, and ST2, but only expects to operate only from JY.

SPANISH AMATEURS will be permitted use of a special prefix block through July 31st. Use of AM, AN and AO prefixes are in celebration of the World Futbol (soccer) Cup Matches to be held in June. Thanks VE3FRA.

K1TOL, Lefty Clement, will be on Sable Island as VE1AWS until July 11th.

4U1UN will be on 6 for the ARRL June VHF contest; counts as a country.

LOOK FOR ANTIGUA ISLAND as K1FJM/VP2A June 9-20th. Thanks K5ZMS.

Westlink Cont'd

TAIWAN AS BV2A can be found on 14.036-14.039 MHz on Wednesdays from 1200 to 1300Z; then 21.030 at 1300Z and 21.345 (phone) at 0000Z. USA WSL's go to K2CM; Japanese QSL's to JA2MOT; all others to his calbook address.

SWITZERLAND SHOULD BE ADDED TO THE LIST of countries permitting Amateur operation on the WARC 18 and 24 MHz bands. One significant difference between the Swiss rules and those of other nations is that Swiss Amateurs are permitted all modes and power limits of up to 1KW. Thanks HB9MQM.

SIX METER NEWS: YS1ECB, Edgard, should be on six very soon running 37W AM only on 50.180 (xtal controlled), but is able to receive SSB. He becomes the first YS on 6 in a very long time, if not the first ever.

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RICHARD A. BURTON, THE FORMER WB6JAC has been convicted in Federal Court on 2 of 3 felony counts of broadcasting obscene, profane and indecent language on the Amateur bands, and on all 4 misdemeanor counts of operating a radio transmitter without a license. The defense had waived its right to a jury trial, and the case was heard on June 5th before U.S. District Court Judge Manuel Real in Los Angeles. According to WLR's courtroom observer, FCC Engineers Lawrence Guy and James Zoulek provided expert testimony for the prosecution which our reporter termed "well prepared and very professional." Their testimony proved that Burton's transmissions could be heard across international boundaries into Mexico. This testimony was backed by that of repeater pioneer Arthur M. Gentry, W6MEP, who is a broadcast engineer with many years of experience in the industry. The defense did not call any witnesses, nor did Burton take the stand in his own behalf. Judge Real found Burton guilty on 6 of the 7 charges and has set sentencing for June 28th to permit time for a "Probation Report" to be prepared. Burton could face heavy fines or prison. It is unknown at this time if he will appeal. The trial was covered in two Los Angeles newspapers. Thanks N6AHU.

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AZDEN PCS-3000 or PCS-300 2 meter rigs
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The Base Station

2101 Pacheco St. Concord, CA 94520

(415) 685-7388

The National Traffic System is the most efficient radio amateur traffic network in existence nationwide. It assures delivery by arranging daily reliable liasons between local, section, regional, and area nets. In Northern California a message may be originated on the Northern California Net. The station with the traffic will wait until the Net Control Station (NCS) asks for checkins (QNI on CW). If your traffic is for areas within the Northern California section (Pacific Division except for Hawaii) just list the quantity and the city. For example on phone the station would check in saying "One for Roseville". On CW the station wishing to list his/her traffic would first get the recognition from NCS to transmit by sending a BK or letter. If the NCS comes back with a BK or the same letter then you are recognized to go ahead and list your traffic. For example: de W6IPL QTC 1 Roseville AR. After checking in and acknowledgement by NCS you would then be sent off frequency to pass your traffic to another station. On CW for example NCS would say: W6IPL W6RBT QNY up 5 Roseville; which simply means that NCS is telling W6IPL and W6RBT to move up 5 Khz and pass Roseville traffic and then return to net frequency and identify yourself when returned. If you had traffic for outside of Northern California the traffic would be routed via the Sixth Region Net (RN6) so if the traffic was one for Texas, two for Los Angeles and one for New York the total would be four for RN6. On CW you would QNI for example: de W6IPL QTC RN6 4 AR. If N6AWH was the RN6 from K6TP, NCS would probably say: "W6IPL QNQ dwn 5 N6AWH after K6TP; which means W6IPL should move down 5 Khz and wait for N6AWH to finish with K6TP and then give him (N6AWH) your traffic. Traffic can also be handled on NCS frequency but this is discouraged because it ties up the net frequency which should be used to coordinate other traffic. A station checking into the net should remain in the net until excused by the NCS (QNX on cw).

During the year the NTS handles messages from fairs, special public events, routine messages from other amateurs, birthday greetings, Valentine wishes, Thanksgiving, Christmas and other routine messages for the general public. This nationwide daily system of trained operators would be invaluable to the country in an advent of blackouts of conventional land-line communications such as during natural disasters or otherwise. You are heart-

ily encouraged to use it and participate. During emergencies or times of expediency stations are encouraged to pass their traffic directly into the region or area nets; however normally, it is best to originate your traffic on the section net or local net. During emergencies or high volume times stations may checkin directly to the Area Net and special Transcontinental schedules can be made to receive Eastern and Central Area traffic as well.

For emergencies, special traffic calling frequencies will be activated and manned. Statewide (including Nevada), these special emergency calling frequencies are 7275 Khz and 3952 Khz. These above frequencies have been approved by the Southwestern Division directorship and are pending approval in the Pacific Division.

The National Traffic System Nets in our locality can be accessed easily. They are:

NEVADA SAGE BRUSH NET:

Covers Nevada and California: M-FRI.
1930 local time - 3906 Khz SSB

DAYTIME SIXTH REGION NET: Covers entire sixth area and Nevada. Daily-1045 and 1530 local times-7275 Khz SSB

PACIFIC AREA NET DAYTIME: Covers all areas outside of Cal. & Nev. daily.
1130 & 1430 local time-14.282 Khz SSB

NORTHERN CALIF. NET/VHF: Covers No. Cal. Daily-145.41 Rptr (-600) 1930 local time-FM

NORTHERN CALIF NET/SLOW SPEED: Covers No. Cal. & Nev. Daily-2030 local time 3630 Khz- CW

NORTHERN CALIF. NET/HI SPEED: Covers No. Cal. and Nev. Daily-1900 local time 3630 Khz- CW

SIXTH REGION NET: Entire Sixth call District & Nev. Daily - 1945 and 2130 local times: 3655 Khz- CW

PACIFIC AREA NET: Covers all areas outside of Cal. Nev. and Hawaii: Daily-2030 local time-3675 (winter) 7082 Khz (summertime): CW

STATEWIDE EMERG. TRAFFIC CALLING FRE.
7275 KHZ (daytime) and 3952 Khz(eve)

The area nets should not be utilized by the inexperienced and the most efficient routing system is to check into your local and section nets listing your traffic by city (if within NCN) or as RN6 (sixth region net) Traffic if going outside of

NI6A con't

Northern California. Through the NTS traffic efficiently and accurately flows coast to coast often within 48 hours and in sometimes within hours. Your participation strengthens the standing of our hobby and betters our skills as radio operators. So now when you have QTC you will know how to get it out. 73

Don Simon - NI6A

STM East Bay Section

Asst. EC for NTS West Contra Co sta
County ARES

National Traffic System
NET FREQUENCIES
For your information:

NCN 1 - 3630 KHZ Daily - 1900 local time;
NCN 2 - 3630 KHZ daily - 2030 local time -
NCN VHF 145.41 rprr (- 600) daily - 1930
local time; RN6 Sixth Regional Net Daytime
7275 SSB - 1045 and 1530 local time daily:
Sixth Region Net Evening 3655 KHZ - 1945
and 2130 daily.

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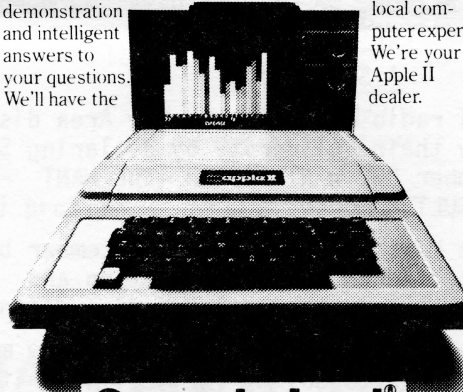
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See Russ-KA6BPN

Special Editorial

To All Radio Clubs

Dear Fellow Amateurs:

A DIRECTION

Being in a position of great visibility and accessibility, I have had the opportunity to meet and speak with a large number of Amateurs. I've been licensed for over 20 years and have listened to Amateurs' gripes about many different problems facing us. In recent years, as most of you know, the "Repeater Jammer" has been the fly in the ointment of our hobby, and this has hindered our effectiveness in our public service goals.

We have asked the FCC for help over the years in ridding our frequencies of these problems, and only in recent months have we seen a little action. A little, yes-too little! We've read about a handful of different actions the FCC has taken, but the jammer are still around. We are told that the local FCC offices have insufficient funds and manpower to enforce their own rules. They do what they can, I guess, with what they have. But it's not enough. We need ACTION. We want results. We need a unified front!

A SUGGESTION

All radio clubs in the Bay Area display their solidarity by declaring September "WE WANT ACTION - WE WANT RESULTS" month.

The Monthly program for September be directed on how to get action and where, and other related discussion.

Have all those present take a few minutes (15 to 30) AT THE MEETING write letters to their elected representatives in congress demanding that funds be allocated and that the FCC, Attorney General and Justice departments make a concentrated effort to rid our frequencies of these people.

The program chairman might provide sample letters or give some guidelines of what the letter might contain.

PROVIDE STAMPED PRE-ADDRESSED envelopes made out for your elected officials (congressmen etc.) If your club is too poor to pay for the envelopes and stamps, pass around a hat. It is imperative that all letters be completed and turned in to the Club Secretary (or designated

person) for immediate mailing. Hams can be great procrastinators - don't let them. Complete the job.

There are over 25 Radio Clubs in the Bay Area. With the encouragement and co-ordination of the CCRC, or individually too, Lets demand action and lets see positive results on a large scale.

Sincerely, Art, VE2AQV/W6

Public Service

The past two months saw members of the Club providing communications support to six public service events. The Devil Mt. Run on May 2 was covered in a previous issue of the Carrier. On May, the American Cancer Society Bike-A-Thon in Concord was supported by: Frank N6GQ, Ryan KA6IVG, Nancy KA6IZI, Dick KT6X, Rick NA6Q and Pete WA6DKW. Likewise on May 8, the "Human Race" for the Contra Costa Volunteers Bureau, from the Willows Shopping Mall in Concord, was provided communications by: KA6DXY Jim, KD6VA Tom, W6KLM Doug, WB6GUX Sherm, KB6UX Bettv Lou, N6EJU Dee, and WA6DQN Joe, KD6Y Joe.

The BART-to-BART 10 km run in Concord on Sunday, May 23, was monitored by Nancy KA6IZI, Frank N6GQ, Bert KA6AEV, Russ WA6PTZ and Joe WA6DQN.

On Saturday, June 5, the Danville Junior Horsemen's "Ride for Research" on Mt. Diablo kept in touch with headquarters through the help of Dwayne W6LKE, Warren WA6QAZ, Frank N6GQ, Miles W6QEN, Doug W6KLM, Douglas KA6DPW, and Dick KA6MWQ.

Likewise on the weekend of June 5-6, the club set up a two meter station at the Safe Boating Display of the Diablo Power Squadron in the Willows Shopping Center, Concord. Don Doughty prepared a large sign and a flier describing the Club activities, and reprints of articles on the use of amateur radio in emergencies were on hand. Unfortunately few visitors came to the exhibit and little publicity was gained from our efforts. Operators participating were Don, W6EEN, Sherm WB6GUX, Mike WB6FBI, Dick KT6X, and Joe WA6DQN. Most of the visitors to our table were other hams!

The next scheduled public service activities are early in the fall: The Walnut Festival on September 19 and Concord-Pleasant Hill Band Review on October 2.

Joe, WA6DQN

MDARC PICNIC

DIRECTIONS:

Take 680 to Sycamore Valley Rd.
Go East to Tassajara Rd.
Turn right at Lawrence Rd. (just past Blackhawk).
Go about 1 mile to 1465 Lawrence Rd. and turn left.

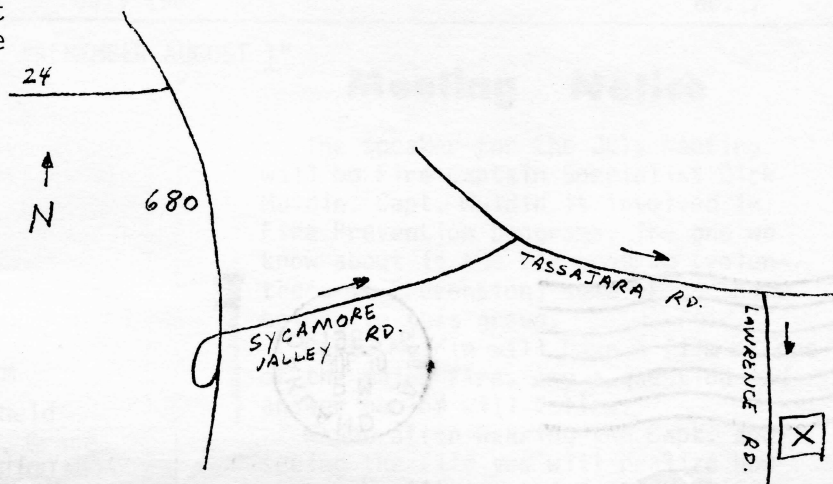
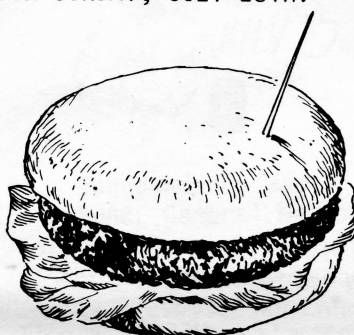
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QTH of KA6EBF
JOE SIMPSON



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Don't contribute to the CATVI problem. Let the cable companies make connections to your entertainment equipment. Making your own connections is a violation of State law and clutters our bands with CATV signal interference.

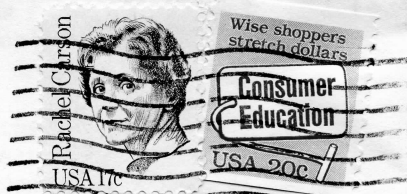
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SECTION 1 — 593D. Every person who knowingly and willfully makes unauthorized connections, whether physically, electrically, or inductively, or attaches any unauthorized device or devices to any cable, wire or other component of a franchised cable television system or to a television set, for the purpose of intercepting any program carried by a franchised cable television system which such person is not authorized to receive, is guilty of a misdemeanor punishable by fine not exceeding two hundred dollars (\$200) or by imprisonment in the county jail not exceeding 30 days.



From:
Mt. Diablo Amateur Radio Club, Inc.
P.O. Box 23222
Pleasant Hill, Calif. 94523

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FIRST CLASS MAIL



BIRTH ANNOUNCEMENT!

Phil Richardson WA6SEU and his YL Hazel, are the new parents of a bouncing baby boy they named Justin Lucas Richardson. Justin came into this world weighing 7 pounds and 8 oz. and 20 inches tall. Born June 16, 1982. Making mom and dad miss breakfast at 8 10 A.M. P.D.T.